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| APPLICATION NO. | FILING DATE                              | FIRST NAMED.INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|--|----------------------|---------------------|------------------|
| 10/711,167      | 08/30/2004                               | Mahmoud A. Mousa     | BUR920040020US1     | 5166             |
| 44152           | 7590 09/13/2007<br>4 & DEDNISTEIN D.L. C |                      | EXAMINER            |                  |
|                 | 1 & BERNSTEIN, P.L.C.<br>D CLARK DRIVE   | •                    | CHIU, TSZ K         |                  |
| RESTON, VA      | 20191                                    |                      | ART UNIT            | PAPER NUMBER     |
|                 |  |                      | 2822                |                  |
|                 |  |                      |                     |                  |
|                 |  |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|                 |  |                      | 09/13/2007          | ELECTRONIC       |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

|   | Application No.   | Applicant(s)   |  |  |  |
|---|---|--|--|--|--|
|   | 10/711,167  | MOUSA ET AL.   |  |  |  |
| Office Action Summary   | Examiner  | Art Unit   |  |  |  |
|   | Tsz K. Chiu   | 2822   |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply   |   |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of the second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).                     | ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be til will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONI | N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133). |  |  |  |
| Status  |   |  |  |  |  |
| 1) ■ Responsive to communication(s) filed on 19 July 2a) ■ This action is FINAL. 2b) ■ This 3) ■ Since this application is in condition for alloward closed in accordance with the practice under Expression 1.   | action is non-final.  nce except for formal matters, pr   |  |  |  |  |
| Disposition of Claims   |   |  |  |  |  |
| <ul> <li>4)  Claim(s) 14 and 18-26 is/are pending in the appearance of the above claim(s) is/are withdraws</li> <li>5)  Claim(s) 14 and 18-26 is/are allowed.</li> <li>6)  Claim(s) 20 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>  | wn from consideration.  |  |  |  |  |
| Application Papers  |   |  |  |  |  |
| 9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |  |  |  |  |
| Priority under 35 U.S.C. § 119  |   |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received. |   |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  | 4) Interview Summar<br>Paper No(s)/Mail [<br>5) Notice of Informal<br>6) Other:   | Date   |  |  |  |

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. "the pFET device" and "the nFET device" should those be <u>a</u> pFET device and <u>a</u> nFET device or claim 20 is dependent on claim 19?

## Allowable Subject Matter

Claim 20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim 14, 18-19 and 21-26 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 14, 18-19 and 21-26 are allowable over the reference of record because non of these references discloses or can be combined to yield the claimed invention. Chan discloses a lower semiconductor device having an active region comprising a semiconductor with a first crystal orientation; and an upper semiconductor device having an active region comprising a semiconductor with a second crystal orientation, however Chan fail to discloses a bonding layer disposed between a top of the lower semiconductor device and a bottom of upper semiconductor device and bonding the upper semiconductor

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device to the lower semiconductor device and the first and second crystal orientation is different from each other.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tsz K. Chiu whose telephone number is 517-272-8656.

The examiner can normally be reached on 0800 to 1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra V. Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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TC

September 4, 2007

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Mary Wilczewski Primary Examiner